

GAS SENSE

**GAS DETECTION
SYSTEMS**

GAPC - ATEX CERTIFIED GAS DETECTORS - ZONE 1



- ATEX certified; High temperature version for up to 140°C available;
- OLED graphic display; LED indication for alarm events; Non intrusive, one-man calibration;
- Different gas measuring technologies available - Catalytic, Semiconductor, Electrochemical, Infrared, MPS.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	4-20mA, Galvanically isolated RS485, Relay outputs
Working temperature	-40 - +70°C/ (140°C option available);
Humidity range	10 – 90%R.H.
Dimensions	200 x 132 x 68 mm
Weight	1,500kg
Enclosure material	Aluminum enclosure, Stainless steel A316 gas sensor housing
Ingress protection	IP66/IP67
Cable connection	Cable gland(s) ½ NPT
ATEX certification	⊕ II 2G Ex db IIC T4 Gb ⊕ II 2D Ex tb IIIC T135°C Db

GAPC



GAS DETECTORS FOR COMBUSTIBLE GASES

DETECTED GAS	MEASURING RANGE
METHANE	0-100%LEL
PROPANE	0-100%LEL
N-BUTANE	0-100%LEL
N-PENTANE	0-100%LEL
N-HEXANE	0-100%LEL
N-HEPTANE	0-100%LEL
N-OCTANE	0-100%LEL
METHANOL	0-100%LEL
ETHANOL	0-100%LEL
ISO-PROPANOL	0-100%LEL
ACETONE	0-100%LEL
MEK	0-100%LEL
TOLUENE	0-100%LEL
ETHYL ACETATE	0-100%LEL
HYDROGEN	0-100%LEL
AMMONIA (LEL)	0-100%LEL
KEROSENE	0-100%LEL
ETHYLENE	0-100%LEL

GAS DETECTORS FOR TOXIC & REFRIGERANT GASES

DETECTED GAS	MEASURING RANGE
CARBON MONOXIDE	0-500ppm
NITROGEN DIOXIDE	0-30ppm
HYDROGEN SULPHIDE	0-100ppm
AMMONIA	0-100ppm
AMMONIA	0-2000ppm
CHLORINE	0-10ppm
OXYGEN	0-25% Vol
CARBON DIOXIDE	0-15000ppm
HCFC Refrigerants (R22)	0-2000ppm
HFC (R404a, R407c, R410a, R507)	0-2000ppm
R-134a	0-2000ppm
R-290	0-2000ppm
R-600	0-2000ppm

GDPC - ATEX CERTIFIED GAS DETECTORS - ZONE 1

GAS SENSE

- ATEX certified; High temperature version for up to 140°C available;
- LED indication for alarm events; Non intrusive, one-man calibration;
- Different gas measuring technologies available - Catalytic, Semiconductor, Electrochemical, Infrared, MPS.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	4-20mA, Galvanically isolated RS485, Relay outputs
Working temperature	-40 - +70°C/ (140°C option available);
Humidity range	10 – 90%R.H.
Dimensions	200 x 132 x 68 mm
Weight	1,500kg
Enclosure material	Aluminum enclosure, Stainless steel A316 gas sensor housing
Ingress protection	IP66/IP67
Cable connection	Cable gland(s) ½ NPT
ATEX certification	Ⓔ II 2G Ex db IIC T4 Gb Ⓔ II 2D Ex tb IIIC T135°C Db

GDPC



GAS DETECTORS FOR COMBUSTIBLE GASES

DETECTED GAS	MEASURING RANGE
METHANE	0-100%LEL
PROPANE	0-100%LEL
N-BUTANE	0-100%LEL
N-PENTANE	0-100%LEL
N-HEXANE	0-100%LEL
N-HEPTANE	0-100%LEL
N-OCTANE	0-100%LEL
METHANOL	0-100%LEL
ETHANOL	0-100%LEL
ISO-PROPANOL	0-100%LEL
ACETONE	0-100%LEL
MEK	0-100%LEL
TOLUENE	0-100%LEL
ETHYL ACETATE	0-100%LEL
HYDROGEN	0-100%LEL
AMMONIA (LEL)	0-100%LEL
KEROSENE	0-100%LEL
ETHYLENE	0-100%LEL

GAS DETECTORS FOR TOXIC & REFRIGERANT GASES

DETECTED GAS	MEASURING RANGE
CARBON MONOXIDE	0-500ppm
NITROGEN DIOXIDE	0-30ppm
HYDROGEN SULPHIDE	0-100ppm
AMMONIA	0-100ppm
AMMONIA	0-2000ppm
CHLORINE	0-10ppm
OXYGEN	0-25% Vol
CARBON DIOXIDE	0-15000ppm
HCFC Refrigerants (R22)	0-2000ppm
HFC (R404a, R407c, R410a, R507)	0-2000ppm
R-134a	0-2000ppm
R-290	0-2000ppm
R-600	0-2000ppm

GRRC - ATEX CERTIFIED GAS DETECTORS - ZONE 1

GAS SENSE

- Compact size; ATEX certified;
- Non intrusive, one-man calibration;
- Different gas measuring technologies available - Catalytic, Semiconductor, Electrochemical, Infrared, MPS.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	4-20mA or Galvanically isolated RS485 output
Working temperature	-40 - +70°C
Humidity range	10 – 90%R.H.
Dimensions	45(dia) x 65(L) mm
Weight	0,400kg
Enclosure material	Stainless steel A316
Ingress protection	IP66/IP67
Cable connection	Cable gland ½ NPT
ATEX certification	⊕ II 2G Ex db IIC T4 Gb ⊕ II 2D Ex tb IIIC T135°C Db

GRRC



GAS DETECTORS FOR COMBUSTIBLE GASES

DETECTED GAS	MEASURING RANGE
METHANE	0-100%LEL
PROPANE	0-100%LEL
N-BUTANE	0-100%LEL
N-PENTANE	0-100%LEL
N-HEXANE	0-100%LEL
N-HEPTANE	0-100%LEL
N-OCTANE	0-100%LEL
METHANOL	0-100%LEL
ETHANOL	0-100%LEL
ISO-PROPANOL	0-100%LEL
ACETONE	0-100%LEL
MEK	0-100%LEL
TOLUENE	0-100%LEL
ETHYL ACETATE	0-100%LEL
HYDROGEN	0-100%LEL
AMMONIA (LEL)	0-100%LEL
KEROSENE	0-100%LEL
ETHYLENE	0-100%LEL

GAS DETECTORS FOR TOXIC & REFRIGERANT GASES

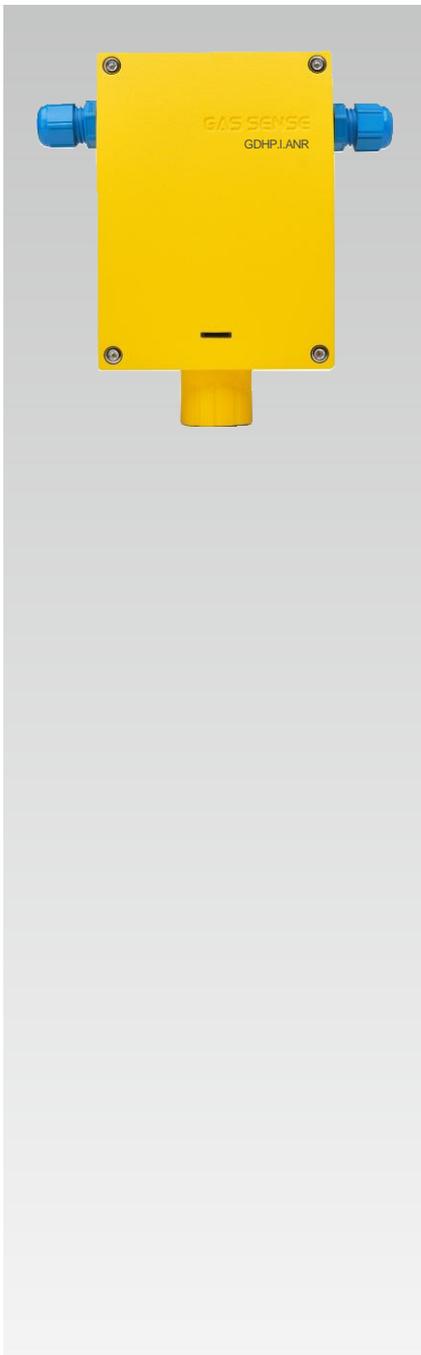
DETECTED GAS	MEASURING RANGE
CARBON MONOXIDE	0-500ppm
NITROGEN DIOXIDE	0-30ppm
HYDROGEN SULPHIDE	0-100ppm
AMMONIA	0-100ppm
AMMONIA	0-2000ppm
CHLORINE	0-10ppm
OXYGEN	0-25% Vol
CARBON DIOXIDE	0-15000ppm
HCFC Refrigerants (R22)	0-2000ppm
HFC (R404a, R407c, R410a, R507)	0-2000ppm
R-134a	0-2000ppm
R-290	0-2000ppm
R-600	0-2000ppm

- ATEX certified;
- LED indication for alarm events; Non intrusive, one-man calibration;
- Different gas measuring technologies available - Catalytic, Semiconductor, Electrochemical, Infrared, MPS.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	4-20mA, Galvanically isolated RS485, Relay outputs
Working temperature	-40 - +60°C
Humidity range	10 – 90%R.H.
Dimensions	155 x 145 x 46 mm
Weight	0,400kg
Enclosure material	Aluminum
Ingress protection	IP65
Cable connection	Cable glands M15/M20
ATEX certification	Ⓔ II 3G Ex ec ic IIC T4 Gc

GDHP



GAS DETECTORS FOR COMBUSTIBLE GASES

DETECTED GAS	MEASURING RANGE
METHANE	0-100%LEL
PROPANE	0-100%LEL
N-BUTANE	0-100%LEL
N-PENTANE	0-100%LEL
N-HEXANE	0-100%LEL
N-HEPTANE	0-100%LEL
N-OCTANE	0-100%LEL
METHANOL	0-100%LEL
ETHANOL	0-100%LEL
ISO-PROPANOL	0-100%LEL
ACETONE	0-100%LEL
MEK	0-100%LEL
TOLUENE	0-100%LEL
ETHYL ACETATE	0-100%LEL
HYDROGEN	0-100%LEL
AMMONIA (LEL)	0-100%LEL
KEROSENE	0-100%LEL
ETHYLENE	0-100%LEL

GAS DETECTORS FOR TOXIC & REFRIGERANT GASES

DETECTED GAS	MEASURING RANGE
CARBON MONOXIDE	0-500ppm
NITROGEN DIOXIDE	0-30ppm
HYDROGEN SULPHIDE	0-100ppm
AMMONIA	0-100ppm
AMMONIA	0-2000ppm
CHLORINE	0-10ppm
OXYGEN	0-25% Vol
CARBON DIOXIDE	0-15000ppm
HCFC Refrigerants (R22)	0-2000ppm
HFC (R404a, R407c, R410a, R507)	0-2000ppm
R-134a	0-2000ppm
R-290	0-2000ppm
R-600	0-2000ppm

GDPC - ATEX CERTIFIED GAS DETECTORS - ZONE 2

GAS SENSE

- ATEX certified; High temperature version till 140°C available;
- Relay outputs versions available; LED indication for alarm events; Non intrusive calibration.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	4-20mA
Working temperature	-40 - +70°C
Humidity range	10 – 90%R.H.
Dimensions	200 x 132 x 68 mm
Weight	1,500kg
Enclosure material	Aluminum enclosure, Stainless steel A316 gas sensor housing
Ingress protection	IP65
Cable connection	Cable gland(s) ½ NPT
ATEX certification	Ⓔ II 2G Ex db IIC T4 Gb Ⓔ II 2D Ex tb IIIC T135°C Db

GDPC.A



-Catalytic gas sensor element;

ADNALOGUE GAS DETECTORS FOR COMBUSTIBLE GASES

DETECTED GAS	RANGE	ORDER CODE
METHANE	0-100%LEL	GDPC.A.CH4.100
PROPANE	0-100%LEL	GDPC.A.PRO.100
N-BUTANE	0-100%LEL	GDPC.A.BUT.100
N-PENTANE	0-100%LEL	GDPC.A.PEN.100
N-HEXANE	0-100%LEL	GDPC.A.HEX.100
N-HEPTANE	0-100%LEL	GDPC.A.HEP.100
N-OCTANE	0-100%LEL	GDPC.A.OCT.100
METHANOL	0-100%LEL	GDPC.A.MNL.100
ETHANOL	0-100%LEL	GDPC.A.ETL.100
ISO-PROPANOL	0-100%LEL	GDPC.A.IPR.100
ACETONE	0-100%LEL	GDPC.A.ACE.100
MEK	0-100%LEL	GDPC.A.MEK.100
TOLUENE	0-100%LEL	GDPC.A.TOL.100
ETHYL ACETATE	0-100%LEL	GDPC.A.EAC.100
HYDROGEN	0-100%LEL	GDPC.A.HYD.100
AMMONIA (LEL)	0-100%LEL	GDPC.A.AMM.LEL
UNLEADED PETROL	0-100%LEL	GDPC.A.UPT.100
ETHYLENE	0-100%LEL	GDPC.A.ETH.100

GDPC.A



- Electrochemical gas sensor for toxic gases;
- Infrared gas sensor for carbon dioxide;
- Semiconductor gas sensor for refrigerants;

ANALOGUE GAS DETECTOR FOR TOXIC & REFRIGERANT GASES

DETECTED GAS	RANGE	ORDER CODE
CARBON MONOXIDE	0-500ppm	GDPC.A.CO.500
NITROGEN DIOXIDE	0-30ppm	GDPC.A.NO2.30
HYDROGEN SULPHIDE	0-100ppm	GDPC.A.V.H2S.100
AMMONIA	0-100ppm	GDPC.A.AMM.100P
AMMONIA	0-2000ppm	GDPC.A.AMM.2000
CHLORINE	0-10ppm	GDPC.A.CL2.10
OXYGEN	0-25% Vol	GDPC.A.O2.25
CARBON DIOXIDE	0-15000ppm	GDPC.A.CO2.15000
HCFC Refrigerants (R22)	0-2000ppm	GDPC.A.HCFC.2000
HFC (R404a, R407c, R410a, R507)	0-2000ppm	GDPC.A.HFC.2000
R-134a	0-2000ppm	GDPC.A.134.2000
R-290	0-2000ppm	GDPC.A.290.2000
R-600	0-2000ppm	GDPC.A.600.2000

GDPC - ATEX CERTIFIED GAS DETECTORS - ZONE 2

GAS SENSE

- ATEX certified; High temperature version till 140°C available;
- Relay outputs versions available; LED indication for alarm events; Non intrusive calibration.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	Galvanically isolated Rs485, Modbus communication protocol
Working temperature	-40 - +70°C
Humidity range	10 – 90%R.H.
Dimensions	200 x 132 x 68 mm
Weight	1,500kg
Enclosure material	Aluminum enclosure, Stainless steel A316 gas sensor housing
Ingress protection	IP65
Cable connection	Cable gland(s) ½ NPT
ATEX certification	Ⓔ II 2G Ex db IIC T4 Gb Ⓔ II 2D Ex tb IIC T135°C Db

GDPC.N



-Catalytic gas sensor element;

ADNALOGUE GAS DETECTORS FOR COMBUSTIBLE GASES

DETECTED GAS	RANGE	ORDER CODE
METHANE	0-100%LEL	GDPC.N.CH4.100
PROPANE	0-100%LEL	GDPC.N.PRO.100
N-BUTANE	0-100%LEL	GDPC.N.BUT.100
N-PENTANE	0-100%LEL	GDPC.N.PEN.100
N-HEXANE	0-100%LEL	GDPC.N.HEX.100
N-HEPTANE	0-100%LEL	GDPC.N.HEP.100
N-OCTANE	0-100%LEL	GDPC.N.OCT.100
METHANOL	0-100%LEL	GDPC.N.MNL.100
ETHANOL	0-100%LEL	GDPC.N.ETL.100
ISO-PROPANOL	0-100%LEL	GDPC.N.IPR.100
ACETONE	0-100%LEL	GDPC.N.ACE.100
MEK	0-100%LEL	GDPC.N.MEK.100
TOLUENE	0-100%LEL	GDPC.N.TOL.100
ETHYL ACETATE	0-100%LEL	GDPC.N.EAC.100
HYDROGEN	0-100%LEL	GDPC.N.HYD.100
AMMONIA (LEL)	0-100%LEL	GDPC.N.AMM.LEL
UNLEADED PETROL	0-100%LEL	GDPC.N.UPT.100
ETHYLENE	0-100%LEL	GDPC.N.ETH.100

GDPC.N



- Electrochemical gas sensor for toxic gases;
- Infrared gas sensor for carbon dioxide;
- Semiconductor gas sensor for refrigerants;

ANALOGUE GAS DETECTOR FOR TOXIC & REFRIGERANT GASES

DETECTED GAS	RANGE	ORDER CODE
CARBON MONOXIDE	0-500ppm	GDPC.N.CO.500
NITROGEN DIOXIDE	0-30ppm	GDPC.N.NO2.30
HYDROGEN SULPHIDE	0-100ppm	GDPC.N.V.H2S.100
AMMONIA	0-100ppm	GDPC.N.AMM.100P
AMMONIA	0-2000ppm	GDPC.N.AMM.2000
CHLORINE	0-10ppm	GDPC.N.CL2.10
OXYGEN	0-25% Vol	GDPC.N.O2.25
CARBON DIOXIDE	0-15000ppm	GDPC.N.CO2.15000
HCFC Refrigerants (R22)	0-2000ppm	GDPC.N.HCFC.2000
HFC (R404a, R407c, R410a, R507)	0-2000ppm	GDPC.N.HFC.2000
R-134a	0-2000ppm	GDPC.N.134.2000
R-290	0-2000ppm	GDPC.N.290.2000
R-600	0-2000ppm	GDPC.N.600.2000



GAS SENSE

ANALOGUE GAS DETECTORS GS-220.BC.V



Analogue gas detectors GS-220.BC.V for detection of combustible, toxic and refrigerant gases.

- Catalytic gas sensors for combustible gases
- Electrochemical gas sensors for toxic gases
- Semiconductor gas sensors for refrigerant gases
- Analog current output
- ATEX certified for use in Zone 1, 2, 21 and 22
- IP65 metal enclosure
- LED status indication
- Non intrusive calibration via external magnetic adapter without opening the instrument

TECHNICAL SPECIFICATIONS

Working voltage	12 – 30 VDC
Power consumption	3W
Output signal	4-20mA
Working temperature	-20 - +50°C
Humidity range	10 – 90%R.H.
Dimensions	155 x 120 x 48 mm
Weight	0,320kg
Enclosure material	Aluminium
Ingress protection	IP65
Cable connection	Cable gland(s) M16 (M20)
Conformity mark	CE
ATEX certification	 II 2G Ex d (ib) ma IIC T4 Gb  II 2D Ex tb(ib) ma IIIC T135oC IP65 Db

ORDERING INFORMATION

ORDER CODE	DETECTED GAS	
GS-220.BC.V.MET.100	METHANE	0-100% LEL
GS-220.BC.V.PRO.100	PROPANE	0-100% LEL
GS-220.BC.V.BUT.100	N-BUTANE	0-100% LEL
GS-220.BC.V.PEN.100	N-PENTANE	0-100% LEL
GS-220.BC.V.HEX.100	N-HEXANE	0-100% LEL
GS-220.BC.V.HEP.100	N-HEPTANE	0-100% LEL
GS-220.BC.V.OCT.100	N-OCTANE	0-100% LEL
GS-220.BC.V.MNL.100	METHANOL	0-100% LEL
GS-220.BC.V.ETL.100	ETHANOL	0-100% LEL
GS-220.BC.V.IPR.100	ISO-PROPANOL	0-100% LEL
GS-220.BC.V.ACE.100	ACETONE	0-100% LEL
GS-220.BC.V.MEK.100	MEK	0-100% LEL
GS-220.BC.V.TOL.100	TOLUENE	0-100% LEL
GS-220.BC.V.EAC.100	ETHYL ACETATE	0-100% LEL
GS-220.BC.V.HYD.100	HYDROGEN	0-100% LEL
GS-220.BC.V.AMM.100L	AMMONIA (LEL)	0-100% LEL
GS-220.BC.V.UPT.100	UNLEADED PETROL	0-100% LEL
GS-220.BC.V.ETH.100	ETHYLENE	0-100% LEL

ORDER CODE	DETECTED GAS	
GS-220.BC.V.CO.500	CARBON MONOXIDE	0-500ppm
GS-220.BC.V.NO2.30	NITROGEN DIOXIDE	0-30ppm
GS-220.BC.V.H2S.100	HYDROGEN SULPHIDE	0-100ppm
GS-220.BC.V.AMM.100P	AMMONIA	0-100ppm
GS-220.BC.V.CL2.10	CHLORINE	0-10ppm
GS-220.BC.V.O2.25	OXYGEN	0-25% Vol
GS-220.BC.V.AMM.2000	AMMONIA	0-2000ppm
GS-220.BC.V.134A.2000	R-134a	0-2000ppm
GS-220.BC.V.404A.2000	R-404a	0-2000ppm
GS-220.BC.V.407C.2000	R-407c	0-2000ppm
GS-220.BC.V.410A.2000	R-410a	0-2000ppm
GS-220.BC.V.290.2000	R-290	0-2000ppm

GS-300.A - ANALOGUE GAS DETECTORS



- IP65 rated plastic enclosure;
- Analogue 4-20mA output;
- LED indication for alarm events;
- Non intrusive calibration.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	4-20mA
Working temperature	-20 - +60°C
Humidity range	10 – 90%R.H.
Dimensions	159 x 120 x 48 mm
Weight	0,320kg
Enclosure material	ABS
Ingress protection	IP65
Cable connection	Cable gland(s) M16 (M20)
Comply with	EN 50270

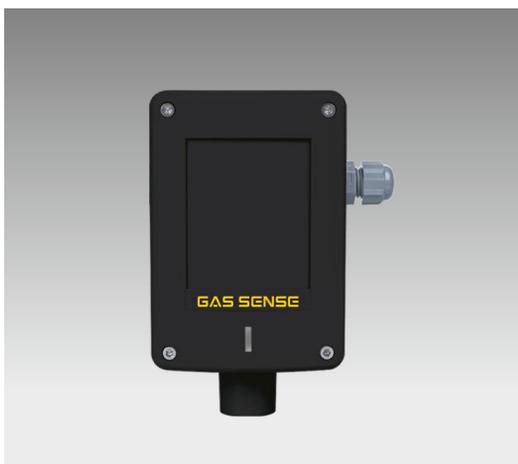
GS-300.A - ANALOGUE GAS DETECTORS FOR COMBUSTIBLE GASES



DETECTED GAS	RANGE	ORDER CODE
METHANE	0-100% LEL	GS-300.A.MET.100
LPG	0-100% LEL	GS-300.A.LPG.100

-Catalytic gas sensor for detection of combustible gases.

GS-300.A - ANALOGUE GAS DETECTOR FOR TOXIC AND REFRIGERANT GASES



DETECTED GAS	RANGE	ORDER CODE
CARBON MONOXIDE	0-500ppm	GS-300.A.CO.500
NITROGEN DIOXIDE	0-30ppm	GS-300.A.NO2.30
HYDROGEN SULPHIDE	0-100ppm	GS-300.A.V.H2S.100
AMMONIA	0-100ppm	GS-300.A.AMM.100P
AMMONIA	0-2000ppm	GS-300.A.AMM.2000
CHLORINE	0-10ppm	GS-300.A.CL2.10
OXYGEN	0-25% Vol	GS-300.A.O2.25
CARBON DIOXIDE	0-15000ppm	GS-300.A.CO2.15000
HCFC Refrigerants (R22)	0-2000ppm	GS-300.A.HCFC.2000
HFC (R404a, R407c, R410a, R507)	0-2000ppm	GS-300.A.HFC.2000
R-134a	0-2000ppm	GS-300.A.134.2000
R-290	0-2000ppm	GS-300.A.290.2000
R-600	0-2000ppm	GS-300.A.600.2000

- Electrochemical gas sensor for toxic gases;
- Semiconductor gas sensors for refrigerant gases;
- NDIR gas sensors for carbon dioxide.

GS-300.N - ADDRESSABLE GAS DETECTORS



- IP65 rated plastic enclosure;
- Galvanically isolated RS485 output;
- Modbus communication protocol;
- LED indication for alarm events;
- Non intrusive calibration.

TECHNICAL SPECIFICATIONS

Working voltage	15 – 30 VDC
Power consumption	3W
Output signal	RS485
Working temperature	-20 - +60°C
Humidity range	10 – 90%R.H.
Dimensions	159 x 145 x 48 mm
Weight	0,320kg
Enclosure material	ABS
Ingress protection	IP65
Cable connection	Cable gland(s) M16 (M20)
Comply with	EN 50270

GS-300.N - ADDRESSABLE GAS DETECTORS FOR COMBUSTIBLE GASES



DETECTED GAS	RANGE	ORDER CODE
METHANE	0-100% LEL	GS-300.N.MET.100
LPG	0-100% LEL	GS-300.N.LPG.100

-Catalytic gas sensor for detection of combustible gases.

GS-300.N - ADDRESSABLE GAS DETECTOR FOR TOXIC AND REFRIGERANT GASES



DETECTED GAS	RANGE	ORDER CODE
CARBON MONOXIDE	0-500ppm	GS-300.N.CO.500
NITROGEN DIOXIDE	0-30ppm	GS-300.N.NO2.30
HYDROGEN SULPHIDE	0-100ppm	GS-300.N.V.H2S.100
AMMONIA	0-100ppm	GS-300.N.AMM.100P
AMMONIA	0-2000ppm	GS-300.N.AMM.2000
CHLORINE	0-10ppm	GS-300.N.CL2.10
OXYGEN	0-25% Vol	GS-300.N.O2.25
CARBON DIOXIDE	0-15000ppm	GS-300.N.CO2.15000
HCFC Refrigerants (R22)	0-2000ppm	GS-300.N.HCFC.2000
HFC (R404a, R407c, R410a, R507)	0-2000ppm	GS-300.N.HFC.2000
R-134a	0-2000ppm	GS-300.N.134.2000
R-290	0-2000ppm	GS-300.N.290.2000
R-600	0-2000ppm	GS-300.N.600.2000

- Electrochemical gas sensor for toxic gases;
- Semiconductor gas sensors for refrigerant gases;
- NDIR gas sensors for carbon dioxide.

GDHP

GAS LEAK DETECTORS

**For R170, R290 and R1270
in HVAC applications**

The GDHP is a reliable, long-life gas detector, specifically designed to detect refrigerant leaks in HVAC applications.

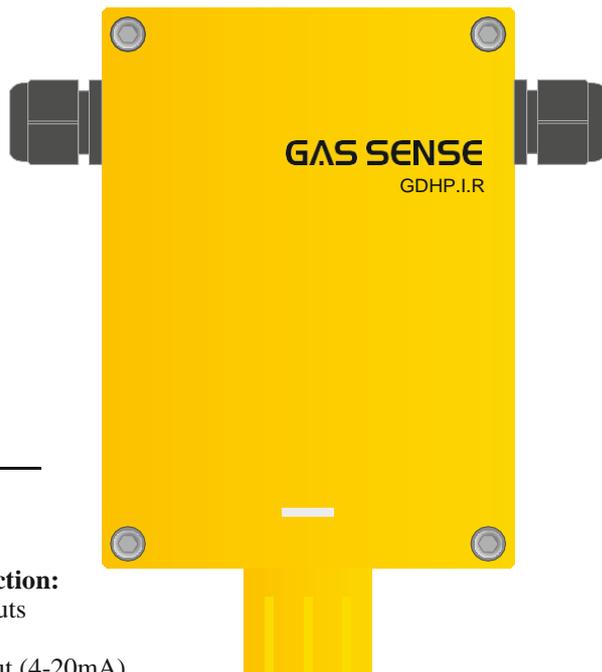


MAIN FEATURES:

- Long life of up to 15 years;
- Maintenance-free;
- Fail-safe;
- Compact size;
- Factory calibrated;
- 1m cable connection;
- ATEX-certified for use in Zone 2.

APPLICATIONS:

- Heat pumps;
- Chillers;
- Vending machines;
- Refrigeration;
- HVAC.



ORDERING CODES:

GDHP X X

Series marking

Gas sensor type:

M - Molecular Property Spectrometer

I - Infrared

S - Semiconductor

Output signal selection:

T - Transistor outputs

R - Relay outputs

A - Analogue output (4-20mA)

N - RS485 Modbus

TECHNICAL SPECIFICATIONS:

Model	GDHP.S	GDHP.M	GDHP.I
Measurement Technology	Semiconductor	Molecular Property Spectrometer (MPS)	Infrared (NDIR)
Measurement Range	0 - 100% LEL	0 - 100 % LEL	0 - 100% LEL
Expected Lifetime	10 + years	10 + years	10 + years
Output Signals	Transistor Outputs Relay Outputs	Transistor Outputs 4-20mA, Modbus Relay Outputs	Transistor Outputs 4-20mA, Modbus Relay Outputs
Temperature Range	-20° to +70°C	-40° to +70°C	-40° to +70°C
Humidity Range	0 - 90% RH	0 - 90% RH	0 - 90% RH
Power Supply	24VDC	24VDC	24VDC
Ingress Protection	IP65	IP65	IP65
Dimensions	155 x 150 x 48 mm	139 x 150 x 48 mm	155 x 150 x 48 mm
Certification and Approvals	EN50270, EN60335, ATEX	EN50270, EN60335, ATEX	EN50270, EN60335, ATEX

H-400 DOMESTIC GAS DETECTORS



- High quality catalytic gas sensor for combustible gases;
- Long lasting electrochemical sensor for CO detection ;
- Semiconductor gas sensor for refrigerant detection;
- LED status indication;
- Sound signalization >85dB;
- TEST/RESET button;
- SPDP relay output;
- Comply with EN50194, EN 50291.

TECHNICAL SPECIFICATIONS

Working voltage	230VAC-50Hz
Power consumption	3W
Output relay	SPDP, 250VAC/2A
Detected gases:	
H-400.CH4	CH4
H-400.LPG	LPG
H-400.CO	Carbon monoxide
H-400.REF	Refrigerant gases
Working temperature	0 - +50°C
Humidity range	10 – 90%R.H.
Sizes	115x91x38mm
Weight	0,250kg
Enclosure material	ABS
Enclosure color	White (RAL 9003)
Conformity mark	CE

H-400 DOMESTICE GAS DETECTORS



DETECTED GAS	DETECTING RANGE	ORDER CODE
Methane	10 - 20%LEL	H-400.CH4
LPG	10 - 20%LEL	H-400.LPG
Carbon monoxide	40 - 250 ppm	H-400.CO
Methane and Carbon monoxide	10-20%LEL / 40-250ppm CO	H-400.CH4+CO
Refrigerant gases	5000ppm	H-400.REF

H-300 REFRIGERANT DETECTORS FOR OCCUPIED SPACES



- Uses refrigerant-specific gas sensor to avoid false alarms;
- Low profile enclosure for aesthetic appeal;
- Simple in-field calibration procedure;
- LED status indication, sound signalization >85dB;
- SPDP relay outputs;
- Galvanically isolated RS485 output for connection with BMS;
- Comply with EN 50270.

TECHNICAL SPECIFICATIONS

Working voltage	230VAC-50Hz (15-30VDC)
Power consumption	3W
Output relays	2 pcs SPDP, 250VAC/2A
Digital output signal	RS485, ModBus
Detected gases	HCFC and HFC refrigerants
Alarm level	5000ppm
Operating temperature	0 - +50°C
Humidity range	10 – 90%R.H.
Dimensions	145x90x35mm
Weight	0,250kg
Enclosure material	ABS
Enclosure color	White (RAL 9003)
Conformity mark	CE

H-300.REF REFRIGERANT DETECTOR



OUTPUT SIGNAL	POWER SUPPLY	ORDER CODE
2 SPDT relay outputs + RS485	230VAC-50Hz	H-300.REF.AC.N
2 SPDT relay outputs + RS485	15-30VDC	H-300.REF.DC.N

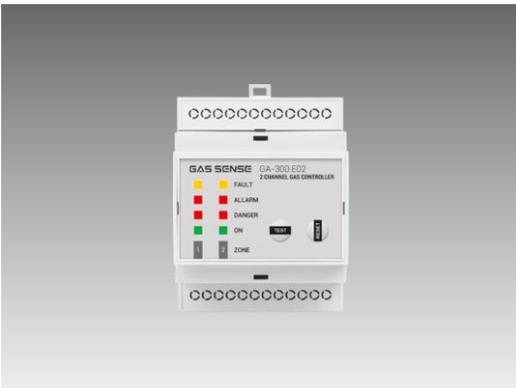
- 1 to 4 analogue input lines;
- Sound signalization;
- Back-up power supply option;
- Enclosure for DIN rail mounting;
- LED status indication;
- Keyboard;
- Relay outputs;
- Comply with EN50270.

TECHNICAL SPECIFICATIONS

Working voltage	230VAC/12 VDC
Power consumption	4 - 12W
Input line signal	Analogue 0-4-12-20mA
Output relays	SPDP, 250VAC/2A
Number of detectors:	
GA-300.E2	1,2
GA-300.E4	3,4
Working temperature	-10 +55°C
Humidity range	10 – 90%R.H.
Enclosure material	ABS
Conformity mark	CE

GA-300.E.02

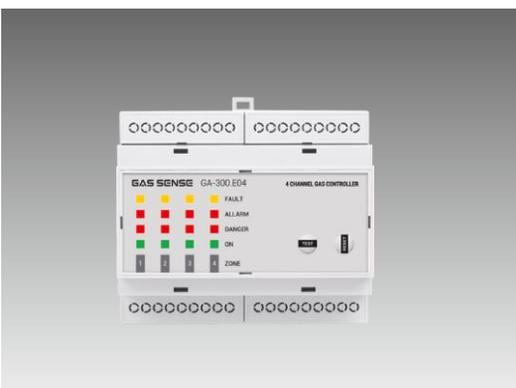
ANALOGUE GAS CONTROLLERS FOR DIN RAIL MOUNTING



CONTROLLED GAS DETECTORS	DIMENSIONS	ORDER CODE
2	71 X 90 58 mm	GA-300.E02

GA-300.E.04

ANALOGUE GAS CONTROLLERS FOR DIN RAIL MOUNTING



CONTROLLED GAS DETECTORS	DIMENSIONS	ORDER CODE
4	106 X 90 58 mm	GA-300.E04

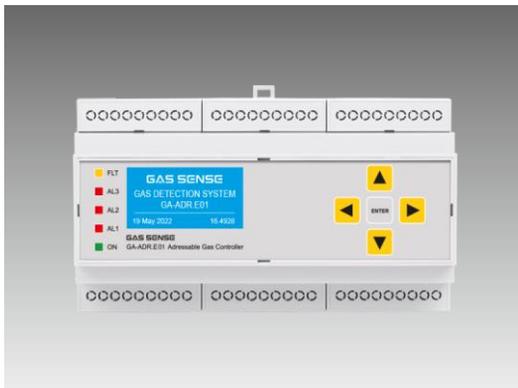
- Modbus communication protocol;
- Galvanically isolated RS485 input and output lines;
- Enclosure for DIN rail mounting;
- LED status indication;
- Graphic LCD display;
- Event memory;
- Relay outputs;
- Comply with EN50270.

TECHNICAL SPECIFICATIONS

Working voltage	18 -30 VDC
Power consumption	10W
Input line	Galvanically isolated RS485
Output line	Galvanically isolated RS485
Number of slave devices	up to 32
Working temperature	-10 +55°C
Humidity range	10 – 90%R.H.
Dimensions	160 x 91 x 58 mm
Weight	0,400kg
Enclosure material	ABS
Conformity mark	CE

GA-ADR.E1

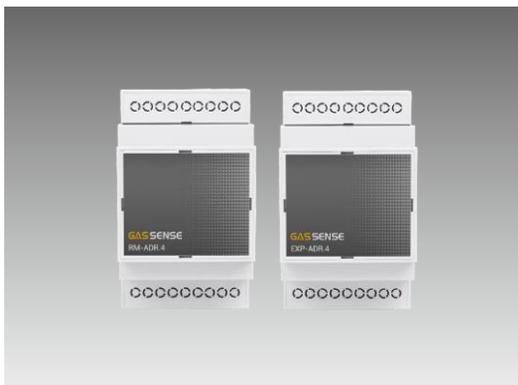
ADDRESSABLE GAS CONTROLLER FOR DIN RAIL MOUNTING



CONTROLLED GAS DETECTORS	POWER SUPPLY	ORDER CODE
16	18 - 30 VDC	GA-ADR.E1-16-DC
32	18 - 30 VDC	GA-ADR.E1-32-DC

RM-ADR / EXP-ADR

RM-ADR ADDRESSABLE RELAY MODULE FOR DIN RAIL MOUNTING



RELAY OUTPUTS	DIMENSIONS	ORDER CODE
4	58x90x53	RM-ADR.4

EXP-ADR ADDRESSABLE LINE EXPANDER

CONTROLLED DEVICES	DIMENSIONS	ORDER CODE
32	58x90x53	EXP-ADR.32

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